What is claimed is:

- 1. An ejector cycle comprising:
- a compressor for compressing refrigerant;
- a high-pressure heat exchanger for radiating heat of high-pressure refrigerant discharged from the compressor;

a low-pressure heat exchanger for evaporating low-pressure refrigerant after being decompressed;

an ejector including a nozzle for decompressing and expanding refrigerant flowing from the high-pressure heat exchanger by converting pressure energy of refrigerant to speed energy of the refrigerant, and a pressure-increasing portion that is disposed to increase a pressure of refrigerant by converting the speed energy of refrigerant to the pressure energy of refrigerant while mixing refrigerant injected from the nozzle and refrigerant sucked from the low-pressure heat exchanger; and

a gas-liquid separator for separating refrigerant from the ejector into gas refrigerant and liquid refrigerant, the gas-liquid separator having a gas refrigerant outlet coupled to a refrigerant suction side of the compressor, and a liquid refrigerant outlet coupled to a refrigerant inlet side of the low-pressure heat exchanger; and

a variable throttle disposed in a refrigerant passage between the high-pressure heat exchanger and the ejector, wherein the variable throttle has a throttle opening degree that is variable such that a refrigerant super-heating degree at a refrigerant outlet side of the low-pressure heat exchanger becomes in a predetermined range.

- 2. The ejector cycle according to claim 1, wherein the variable throttle is disposed to decompress high-pressure refrigerant from the high-pressure heat exchanger, to a gas-liquid two-phase state.
 - 3. The ejector cycle according to claim 1, wherein,

the variable throttle is a mechanical expansion valve having a sensing portion for sensing the refrigerant super-heating degree at the refrigerant outlet side of the low-pressure heat exchanger, and

the variable throttle mechanically operates based on the refrigerant super-heating degree sensed by the sensing portion.

4. The ejector cycle according to claim 1, further comprising

a sensor for detecting the refrigerant super-heating degree at the refrigerant outlet side of the low-pressure heat exchanger, wherein the variable throttle is an electrical throttle that is electrically operated based on the refrigerant super-heating degree detected by the sensor.

- 5. The ejector cycle according to claim 1, wherein at least a part of the variable throttle is integrated with the ejector.
- 6. The ejector cycle according to claim 1, wherein the nozzle decompresses refrigerant after being decompressed in the variable

throttle.

- 7. An ejector cycle comprising:
- a compressor for compressing refrigerant;
- a high-pressure heat exchanger for radiating heat of high-pressure refrigerant discharged from the compressor;
- a low-pressure heat exchanger for evaporating low-pressure refrigerant after being decompressed;

an ejector including a nozzle for decompressing and expanding refrigerant flowing from the high-pressure heat exchanger by converting pressure energy of refrigerant to speed energy of the refrigerant, and a pressure-increasing portion that is disposed to increase a pressure of refrigerant by converting the speed energy of refrigerant to the pressure energy of refrigerant while mixing refrigerant injected from the nozzle and refrigerant sucked from the low-pressure heat exchanger; and

a gas-liquid separator for separating refrigerant from the ejector into gas refrigerant and liquid refrigerant, the gas-liquid separator having a gas refrigerant outlet coupled to a refrigerant suction side of the compressor, and a liquid refrigerant outlet coupled to a refrigerant inlet side of the low-pressure heat exchanger; and

a variable throttle disposed in a refrigerant passage between the high-pressure heat exchanger and the ejector, wherein the variable throttle has a throttle opening degree that is variable such that a refrigerant super-heating degree at the refrigerant suction side of the compressor becomes in a predetermined range.

- 8. The ejector cycle according to claim 7, wherein the variable throttle is disposed to decompress high-pressure refrigerant from the high-pressure heat exchanger, to a gas-liquid two-phase state.
 - 9. The ejector cycle according to claim 7, wherein,

the variable throttle is a mechanical expansion valve having a sensing portion for sensing the refrigerant super-heating degree at the refrigerant suction side of the compressor, and

the variable throttle mechanically operates based on the refrigerant super-heating degree sensed by the sensing portion.

10. The ejector cycle according to claim 7, further comprising

a sensor for detecting the refrigerant super-heating degree at the refrigerant suction side of the low-pressure heat exchanger, wherein the variable throttle is an electrical throttle that is electrically operated based on the refrigerant super-heating degree detected by the sensor.

- 11. The ejector cycle according to claim 7, wherein at least a part of the variable throttle is integrated with the ejector.
- 12. The ejector cycle according to claim 7, wherein the nozzle decompresses refrigerant after being decompressed in the variable throttle.